Safety Symbols

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN

This symbol indicates there is dangerous voltages within the AD-8091 housing, which may have sufficient magnitude to constitute a risk of electric shock if not handled correctly. To avoid the risk of electric shock, do not open the housing at any time.



This symbol identifies important operating and maintenance (servicing) instructions. Be sure to follow instructions identified with this symbol to avoid potential damage to your unit.

Safety Precautions



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET.
REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

DO NOT STARE INTO BEAM OR BLINDNESS MAY RESULT.

This DVD Recorder a laser system. To prevent direct exposure to laser beam, do not try to open the enclosure or defeat the interlocks. Use of controls, adjustments or the performance of procedures other than those specified may result herein hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated

Other Precautions

- Do not put any objects in the tray other than approved video and audio discs.
- Do not open the unit, touch the inner parts or insert any foreign objects into the unit.
- Place the unit on a level, open surface. Do not locate the unit under direct sunshine, near heating devices or in very dusty or dirty places. Otherwise, the unit may be damaged.
- Hold the plug tight when connecting or disconnecting the AC power supply. Do not put any weight on AC cord or attempt to service the AC cord if it becomes damaged.
- Keep unit away from open windows or near anyplace where water may get into the unit and damage it.
- Do not stack heavy objects on the unit.
- Condensation may form in the unit when moving it from very cold to very warm or humid locations. In such cases, wait for
 the unit to come to room temperature and the condensation to evaporate before using the unit.

Do not place the unit near radio receivers or other video or audio devices. Should a nearby radio receiver experience interference while the unit is running, turn the AD-8091 unit off.

1.Read this Manual

After unpacking this product read the manual carefully and follow all the operating instructions.



5.Heat

Position the unit away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers)that produce heat.



2.Power Sources

This product should be operated only from the type of power source indicated on the unit. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.



6. Water and Moisture

Do not use this product near water such as near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool or the like.



3. Grounding or Polarization

This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the plug, contact your electrician to replace your obsolete outlet. Do not try to bypass the safety purpose of the polarized plug.



7. Cleaning

Unplug this product from the A/C outlet before cleaning. Use a damp cloth to clean the unit. Do not use liquid or aerosol cleaners.



8. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience



receptacles, and the point where they exit from the product.

4. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure operation of the product and to protect it from overheating. Do not block or cover these openings.



9. Overloading

Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock.



10.Lightning

Unplug the unit from the wall outlet during storms to prevent damage from lightning and power surges.

11.Objects and Liquids

Never push objects into this product as that could result in a fire or electric shock. Never spill liquids on the product.

12.Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

13.Accessories

Do not place this product on an unstable platform. The product may fall, causing serious injury or serious damage to the product.

14.Disc Tray

Keep your fingers clear of the disc tray as it is closing.

Neglecting to may cause serious personal injury.

15.Burden

Do not place heavy objects on the product. The object may fall causing serious personal injury and serious damage to the product.



16.Discs

Do not use a cracked, deformed or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.



17.Damage Requiring Service

Unplug the unit from the A/C outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power cord or plug is damaged.
- b) If liquid has been spilled into or objects have fallen into the product.
- c) If the product has been exposed to rain or water.
- d) If the product does not operate normally.
- e) If the product has been dropped or damaged in any way.
- f) When the product exhibits a distinct change in performance.

18. Servicing

Do not attempt to service this product yourself as this may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



19. Replacement Parts

Be sure the service technician has used authorized replacement parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.



20.Safety Check

Upon completion of any service or repairs, ask the service technician to perform safety checks to determine that the product is in proper operating condition

21.Splashing

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

PRODUCTS WITH PROGRESSIVE SCAN OUTPUTS (525P/625P) NOTICE REQUIREMENTS

(from the 525p/625p Addendum to the DVD License Agreement)

Licensee will incorporate the following wording, as appropriate, together with the applicable list of Licensee's high definition television sets, in all product manuals or the like applicable to any DVD Recorder with a YUV progressive scan output:

For DVD Recorders with 525p, but not 625p, progressive scan output:

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD RECORDER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

For DVD Recorders with 625p, but not 525p, progressive scan output:

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 625p DVD RECORDER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

For DVD Recorders with both 525p and 625p progressive scan outputs:

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD RECORDER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



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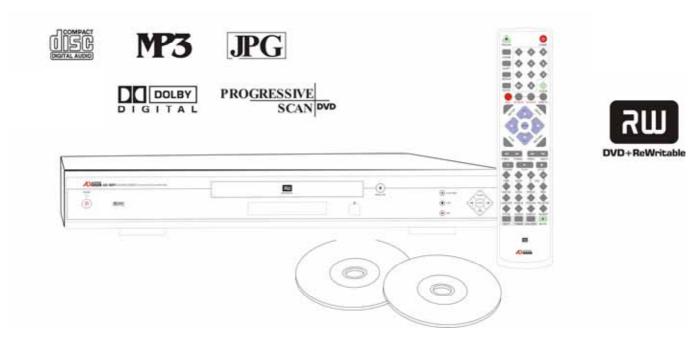
- 1. Please be sure on the condition of STANDBY prior to power off.
- 2. To prevent improper condition, restarting within five minutes since power off shall not be advised.
- 3. The playing effect shall not be assured if user operates the products with bad quality DVD+RW discs.
- 4. If this DVD+RW has been stay under 0 ° temperature for more than 30minutes, Please keep it in an warmer environment (over 15 ° temperature) before you plug in.

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INTRODUCTION

DVD+R/RW Recorder and Progressive Scan Player



You AD-8091 is a progressive scan DVD Recorder. The recording provides you the ability to create your own DVD discs from your home movies, favorite TV programs and more. Because of the outstanding compatibility of DVD+R/RW discs, the discs you create will be suitable for playback in most DVD Recorders. You can record from the unit's built-in TV Tuner or an external video source like a video camera. And when you're ready to watch your recordings or commercial DVDs, you can enjoy them in the highest quality with the unit's Progressive Scan Video Out and Digital Audio Out.

DVD+R/RW Recorder

- Record from your TV, camcorder, VCR, CD's, DVD's.
- Live, Timer and Scheduled Recording Functions
- Multiple Recording Modes, HQ, SP, LP, EP, EP+
- Up to 6 Hours Recording on one DVD+R/RW Disc
- On-Screen Disc Title Navigator gives you quick, easy access to your Recordings
- Built-In TV Tuner, Right Side and Rear A/V Inputs
- Editing features with Auto, Add/Del, Hide Chapters
- Your recordings are playable on most DVD Recorders

Progressive Scan DVD+R/RW

- Progressive Scan Video with 3:2 pull down Playback DVD+R, DVD+RW, DVD- R, DVD-RW, DVD, CD-R, CD-RW, SVCD, CD+G, MP3, JPEG, Kodak Picture CD.
- Component Video, S-Video and Composite Video Outputs
- 96 kHz / 24 bit D/A converter
- Stereo Audio out, Optical and Coaxial digital outputs.
- Advanced playback functions: Slow playback, repeat playback, parental control, MP3 player, JPG player, screen saver, Zoom In/Out, track selection, on-screen display and more

INTRODUCTION

Optical disc compatibility

This unit is compatible with a wide range of available optical discs for recording and playback.

Discs suitable for Recording and Playback

You must us DVD+R or DVD+RW discs to record on this unit.

DVD+R: These discs can only be written to once. Existing recordings can be hidden but not deleted. So, any disc space already used by a recording cannot be regained. DVD+R discs are required to be "Finalized" before they will be compatible with standard DVD Recorders. Once a disc is finalized, no further recordings can be made.

DVD+RW: DVD+RW discs can be written to and erased multiple times. Existing recordings can be deleted and disc space regained. These discs do not require a finalization procedure. As soon as a recording is made, the disc will be compatible with standard DVD Recorders.





Discs suitable for Playback Only

Units sold in North America are coded for Region 1, and are compatible with discs marked accordingly.



DVD-R/RW: These discs can be played back when recorded in standard DVD Video format.









CD-Audio: An on-screen navigator is provided to select and play tracks when using CD-Audio discs.



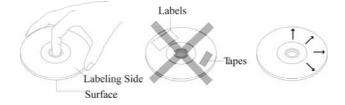
CD-R/RW: This unit features an on-screen navigator for easy access to playable files stored on CD-R/RW discs, such as JPG images and MP3 music.





Caring for Optical Discs

- 1. Hold a disc by the rim or with an index finger in the central hole. Never touch the signal surface.
- 2. Finger prints or stains on the surface of the disc may cause signal loss.
- Use a soft cloth and wipe in a radiating manner from the center of the disc to the outer rims when cleaning the disc surface.
- 4. Never add labels or adhesive tapes on the discs Be careful not to scratch or damage the disc surface.
- 5. To prevent discs from becoming bent or deformed, they should be vertically kept in the disc storage case. To prevent damage, avoid leaving discs in your car, where they may be subject to direct sunlight and high temperature.
- 6. Do not use any disc accessory to improve the audio quality, disc protective solutions or lens cleaner. These products may damage the disc surface.



INTRODUCTION

Make sure the package contents are complete

In addition to the DVD recorder, your package contains the following accessories.

Remote control



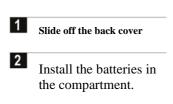


A/V cable (composite Video, stereo Audio)



Installing batteries in the remote control

This unit comes complete with batteries for the remote control. When installing batteries, be sure to take note of the polarity markings on the inside of the battery compartment and match them up with those on the batteries.



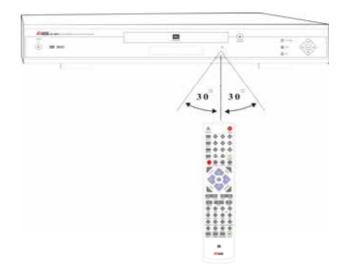


Notes on batteries

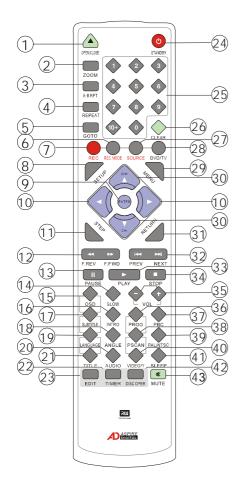
- 1. If the remote control functions better when it is closer to the unit, the batteries may be running low.
- In case of any leakage of batteries, dispose the batteries right away and avoid touching the chemical discharge.
 Make sure to clean the remote control's battery compartment before installing new batteries.
- 3. Do not mix batteries of different types, or use old batteries.

Operating the remote control

When using the remote control, be sure to stay within a 30 degree angle of the sensor (More than 3 meter)on the receiver. Keep in mind that any obstructions between the remote control and the receiver will effect performance.



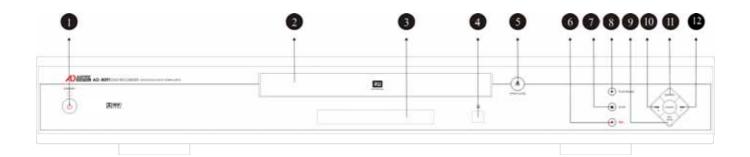
Remote Control



- 1. OPEN / CLOSE Opens and closes the disc tray.
- **2. ZOOM -** Press to magnify the screen with DVD and JPG discs.
- **3. A-B REPEAT -** Sets the beginning and end points of a section to repeat.
- **4. REPEAT -** Selects a repeat option Chapter, Title or Disc.
- **5. GOTO -** To Select your desired time, chapter of the disc to play.
- **6. REC MODE -** Selects the recording quality mode HQ, SP, LP, EP, EP+.
- **7. REC -** Press to begin a live recording.
- 8. SETUP Accesses the on-screen Setup Menu for settings adjustment. Use direction keys (UP/DOWN/RIGHT/LEFT) to highlight the item you desired.
- ENTER Selects options in menus. Plays a disc, chapter or track with some discs. For other discs, press PLAY.
- **10. RIGHT/LEFT** to highlight the item you desired.
- 11. STEP- Step to step playback
- **12. F.REV/F.FWD -** Scan in fast reverse or forward on DVD and other discs.
- **13. PAUSE** Begins playback of a disc, chapter or track. Press again during playback to pause
- **14. SLOW** Slow motion playback mode in ½,1/4 or 1/8 speed. Press PLAY to resume normal playback.
- **15. OSD** brings up the on-screen display showing information for the playback session.
- **16. INTRO** playback disc for 9 sub-pictures display.
- **17. SUBTITLE -** Selects available subtitles on DVD discs.
- **18. ANGLE -** Selects between multiple angles with DVD Discs that support this feature.
- **19. LANGUAGE** changing the audio language for DVD discs
- **20. AUDIO -** Selects an audio track on DVD.
- 21. TITLE Accesses the title screen on DVD+R/RW discs, displaying a graphical representation of the recordings and providing easy navigation.

- **22. TIMER -** Accesses the timer menu for scheduled recording setup.
- **23. EDIT** Accesses the edit menu for DVD+R/RW editing options.
- **24. STANDBY -** Turns the unit on and sends the unit to Standby mode.
- **25. NUMBER KEYS -** Use to enter numeric values while setting options.
- **26. CLEAR** At any time, press CLEAR to return to monitor.
- **27. SOURCE -** Selects the input video source for recording. Choices include built-in TV Tuner and AV Inputs.
- **28.** DVD/TV Switches between Live Recording mode and DVD Recorder mode.
- **29. MENU -** Accesses Menu DVD Discs.
- **30. (CH+/-)/ UP/DOWN -** In TV tuner mode, use to select a channel.
- **31. RETURN -**Resume playback for DVD discs .
- **32. NEXT/PREVIOUS** Advanced to the next track or plays previous track on DVD and other disc.
- **33. PLAY-** Playback or Pause the disc
- **34. STOP -** Press once to stop playback and hold the last position in memory. Playback can be resumed where it was left off by pressing PLAY. Press twice to clear the last playback position.
- **35. VOL -** Use to select volume +,-
- **36. PROG** Program play for disc.
- **37. PBC -** Accesses Menus on SVCD Discs. turns the PBC function On/Off.
- **38. PSCAN** -Select the video out format for progressive scan mode or Interlace TV.
- **39. PAL/NTSC** -Select the video system for PAL,NTSC or multi system.
- **40. VIDEO/Y** Select the video out mode for S-VIDEO (or composite), YUV..
- **41. SLEEP** Set the AUTO power off time mode for 30 min, 60min, 90min, 120min or off
- **42. DISC OPER -** Format the Disc\Erase Disc\Finalize Disc\Rename Disc.
- **43. MUTE -** Temporarily cancels audio playback.

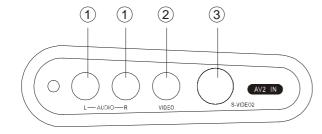
Front Panel



- **1. STANDBY -** Turns the unit on and sends the unit to standby mode. In standby mode, the unit will use a minute amount of power to enable power-on by the remote control
- **2. DISC TRAY -** Loads DVD+R/RW, DVD, CD-ROM, SVCD, MP3, JPG and other optical discs.
- **3. VFD DISPLAY -** The front Display shows information about the unit's operation, such as current chapter and elapsed time during playback and disc tray status.
- 4. RÉMOTE RECEIVERS
- **5. OPEN/CLOSE -** Press to open or close the disc tray.
- 6. RECORD Begins a Live Recording.
- **7. STOP -** Press once to stop playback of a disc and save the location of the stop point. The disc can be played back from the stop point by pressing PLAY. To erase the stop point and reset the play location to the beginning of the disc, press STOP a second time.
- **8. PLAY/PAUSE -** Begins playback of a disc, chapter or track. Press again during playback to pause, and again to resume playback.

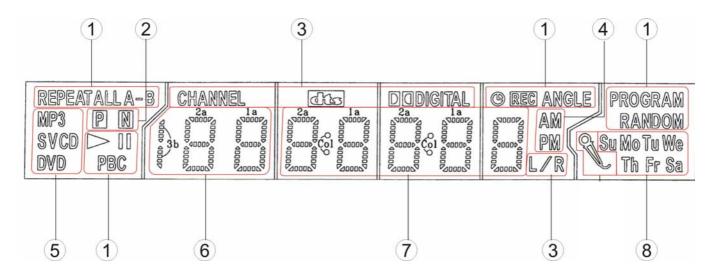
- **9. REC MODE** Selects the recording quality mode HQ, SP, LP, EP, EP+.
- 10. 12. NEXT/PREVIOUS Advanced to the next track or plays previous track on DVD and other disc.
- **11. SOURCE -** Selects Input Sources when the Recorder is in Live Record mode TV Tuner, VIDEO IN 1 / 2, S-VIDEO IN 1 / 2. And switch DVD Recorder mode to live recorder mode.

Right Side Panel



- **1.STEREO AUDIO INPUTS -** Use with S-VIDEO2 IN or VIDEO2 IN 1for recording.
- **2.VIDEO2 INPUT -** Composite Video input for recording. To select this input, use the SOURCE button and choose VIDEO IN 2.
- **3.S-VIDEO2 INPUT -** S-VIDEO input for recording. To select this input, use the SOURCE button and choose S-VIDEO IN 2.

Front VFD Display



1. FUNCTION INDICATORS

Indicate the status of advanced disc playback functions:

ALL Repeat Chapter/Title/Track function is active.

A-B Repeat A-B Function is active.

REC Recording indicator.

ANGLE Multi-Angle Mode is active.

PROGRAM Tracks are being played in PROGRAM order.

RANDOM Tracks are being played in RANDOM order. **PBC** PBC (Playback Control) Function is enabled. These indicators show the playback status of a DVD, CD or other optical disc - Currently Playing: , Paused: .

2. TV TYPE INDICATORS

These indicators show the TV TYPE-PAL:P, NTSC:N

3. PROCESSOR INDICATORS

These indicators display the status of the surround sound processors and type of sound track currently active.

CHANNEL The TV channel indicates

DOLBY the Dolby Digital processor is active.

L/R The L/R option is active.

4. AM OR PM INDICATORS

These indicators show the current time is ante meridiem or post meridiem.

5. DISC TYPE INDICATORS

Displays the type of optical disc inserted - DVD, SVCD, CDDA (Music CD), or MP3.

6.TITLE /CHAPTER/Track INDICATOR

Displays the number of the current Title, Chapter or Track on DVD, Music CDs and other discs.

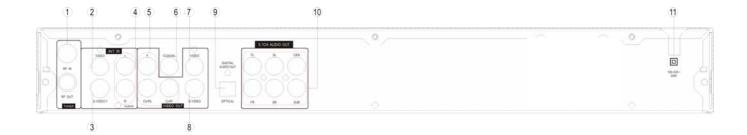
7.MULTI-FUNCTION DISPLAY

When playing a DVD or other optical disc, displays the elapsed time of the playback session or track. Also displays disc tray status, system messages and more. When the unit is in Standby Mode, displays the system clock.

8.WEEK DAYS

Displays the current week days.

Back Panel



- 1. RF IN / OUT For Antenna or Cable TV connection. Pass through connection to TV does not transfer the output signal from the DVD Recorder.
 *Some units do not have a Pass through connector. In this case, use a splitter (See page 16).
- **2. VIDEO1 INPUT -** Composite Video input for recording. To select this input, use the SOURCE button and choose VIDEO IN 1.
- **3. S-VIDEO1 INPUT -** S-VIDEO input for recording. To select this input, use the SOURCE button and choose S-VIDEO IN 1.
- **4. STEREO AUDIO INPUTS -** Use with S-VIDEO1 IN 1or VIDEO1 IN 1for recording.
- **5. COMPONENT/PROGRESSIVE SCAN VIDEO OUTPUT -** Use this output with TVs supporting
 Component Video or Progressive Scan input for best video quality. Select this output in the DVD Recorder's SETUP MENU.
- **6. COAXIAL DIGITAL AUDIO OUTPUT -** Use a special coaxial digital audio connector to send the raw coded digital signal to devices supporting digital decoding.
- **7. COMPOSITE VIDEO OUTPUT -** Standard Video Output supported by most TVs.
- **8. S-VIDEO OUTPUT -** Connect to TVs with S-VIDEO in for better picture quality than standard composite video.

- **9. OPTICAL DIGITAL AUDIO OUTPUT -** Use to connect to a receiver or other device with 5.1 channel decoders. This output is the coded digital signal.
- **10. 5.1CH AUDIO OUTPUT -** Connect to TVs or other Audio equipment supporting 5.1CH audio in.
- 11.POWER CABLE

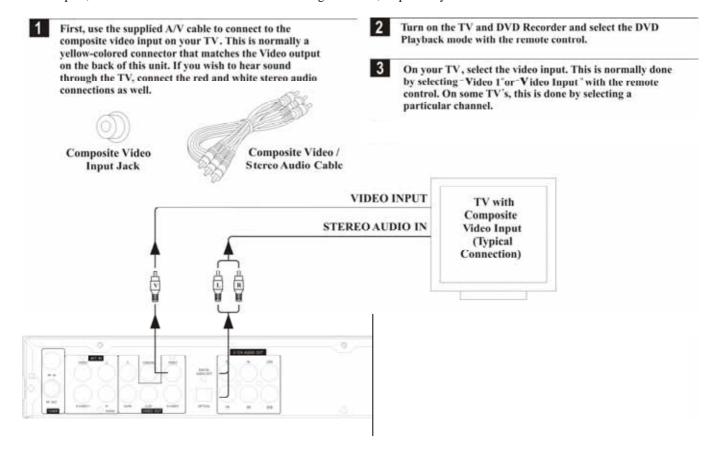
Connecting the video output to your TV

In order to use the DVD Recorder, you'll need to make a video connection to your TV. The capabilities of your TV and the cables you have on hand will determine the connections you can use. There are 3 possible connection types:

- Composite Video The most widely used connection. This unit includes an A/V cable for Composite Video.
- S-Video A higher quality connection that requires a special S-Video cable and an S-Video capable TV.
- Component Video The highest quality video connection. Supported on high-end TVs and requires a special cable.

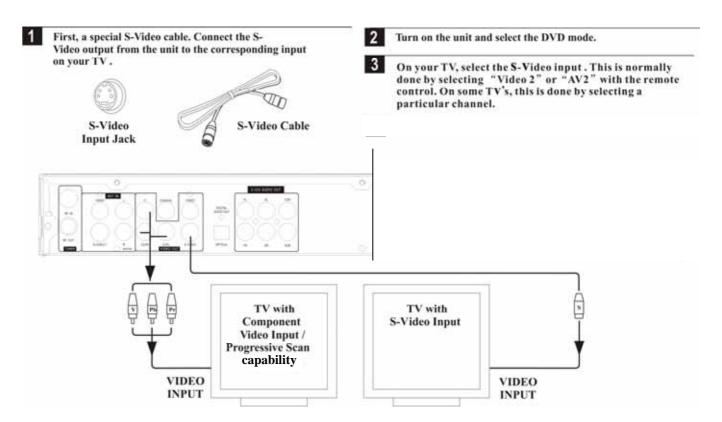
Composite Video (Typical connection)

This unit ships with a composite video (A/V) cable for connection to TVs with a standard video input as shown below. This is the most widely used type of connection. On most TVs, this connector is colored yellow, and is normally accompanied by stereo audio inputs, colored red and white for stereo channels right and left, respectively.



S-Video

This is a higher quality connection than standard composite video, and requires a special S-Video cable not included. The S-Video connector is distinguishable by its 4 pins, as shown below. If your TV has an S-Video input, it's recommended that you use this type of connection for better picture quality.



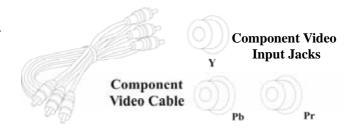
Component Video

The highest quality video connection, component video requires separate cables for the Y, Pb, Pr signals. To use the progressive scan option on this unit, you'll need to use the component video output. Using the component video output requires these steps:

- First, use the supplied A/V cable to connect to the composite video input on your TV. Select this input.
- Change the TV TYPE to YUV by press the VIDEO/Y key on the remote control.



Changing the TV OUT MODE to the progressive scan by press the PSCAN key. Select the correct video input on your TV.



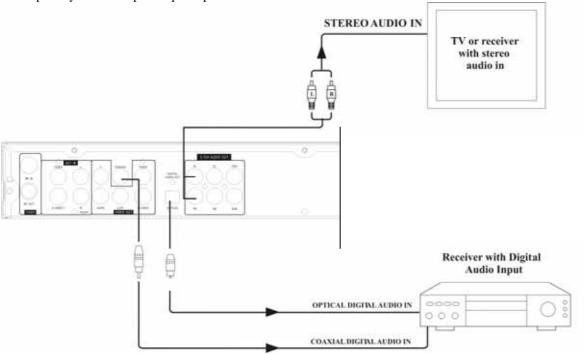
Resetting the video output

If you inadvertently switch the OUTPUT FORMAT setting to PROGRESSIVE while using a standard TV not capable of PSCAN, you will loose video. If this happens, reset the recorder to its default video settings by pressing PSCAN on the remote.

Audio Output Connections

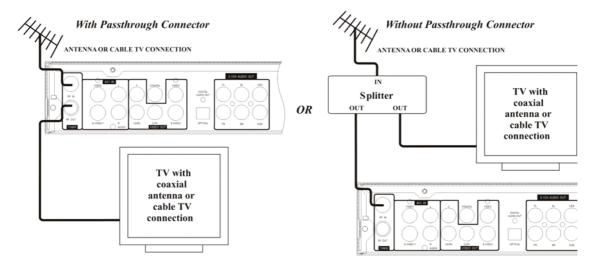
This unit features a variety of audio line outputs for connection to a receiver or other audio equipment.

- Use the included A/V cable to connect the stereo audio outputs for connection to a TV or stereo receiver.
- Optical and Coaxial digital audio outputs send an encoded digital bitstream, suitable for receivers with Dolby decoding capability. These outputs require special cables not included.



Antenna & TV Connections

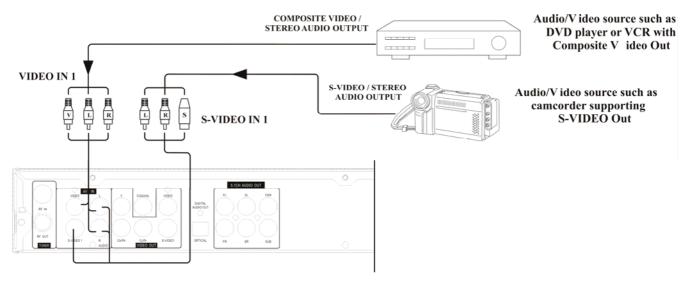
This unit is available with and without an *antenna pass through connection*. For units with an Antenna input connector and with pass through connector, as shown below to the left, use antenna or cable TV connection to connect RF input and RF out connect a TV.



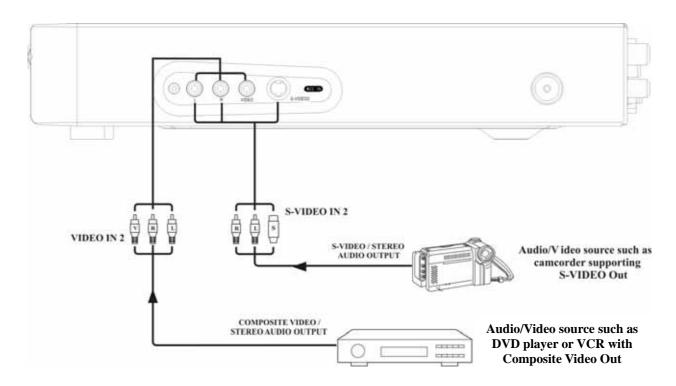
Connecting Audio/Video recording sources to the A/V Inputs

Audio/Video inputs are provided on the right side and back of the unit for connection of outside audio/video sources such as VCRs, camcorders, DVD Recorders, etc. External Video Sources must support S-Video, Composite Video and/or Stereo Audio to be suitable for recording.

Back AV Inputs (VIDEO IN 1, S-VIDEO IN 1)



Side AV Inputs (VIDEO IN 2, S-VIDEO IN 2)



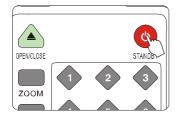
Powering on the unit

Only after all connections are complete, connect the power cord and power on the unit.



- plug the standard jack end into a wall socket or power strip.
- Press STANDBY on the remote control or front panel to bring the system out of standby mode. The system is now ready to use.





Notes on "Power" states

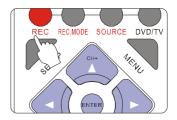
There are 3 power states for this unit:

- OFF not connect the power cord. The unit draws no power and cannot be turned on by the remote control.
- 2. STANDBY the unit has not been taken out of standby by pressing either the STANDBY key on the remote control or the STANDBY button on the front panel. The unit draws a slight amount of power to enable the remote control receiving circuit.
- 3. ON the STANDBY button on the remote control *or* the STANDBY button on the front panel has been pressed. The unit is ready to use.

Initial Setup Procedure

Using the Menus

When the unit is first powered on, you'll be prompted to set the time and date as well as TV Tuner options. You can always change any of the settings you choose during the Initial Setup later in the DVD Recorder's SETUP MENU.



- Use the UP/DOWN keys to increase or decrease the value of a selected field or move to a field above or below. Use the LEFT/RIGHT keys to move to the previous or next fields.
- 2 Press ENTER to select an option and/or continue.

Time and Date

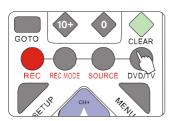
Setting the Time and Date correctly is important, as the Timer recordings depend on an accurate setting. The Time format used is 24HR. This means that 1:00PM will be represented as 13:00, 2:00PM as 14:00, and so on. Use the UP/DOWN keys to increase or decrease the Time or Date and the LEFT/RIGHT keys to move to a different field. When you're done, move to DONE and press ENTER.



The Initial Setup is now complete. Remember, any settings chosen during the Initial Setup can be changed at any time in the DVD Recorder's SETUP MENU. Press **SETUP** to exit the Initial Setup and begin using your DVD Recorder.

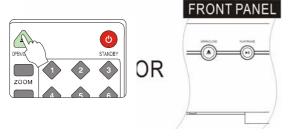
Select the DVD Playback Mode

Press the DVD/TV button on the remote control or the receiver's front panel to select the DVD mode.

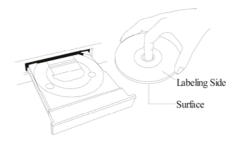


Inserting a Disc

Press the OPEN/CLOSE button on the remote or front panel to open the disc tray.



2 Insert a disc.



3 Close the disc tray by pressing OPEN / CLOSE on the remote or front panel.

Using Disc Menus

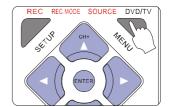
Playing a Disc from the Menu

Most DVDs will automatically display a menu after the disc is inserted. This first menu is the first of possibly many layers, and is therefore known as the menu.

- Use the ARROW keys on the remote control to navigate through the menu to the appropriate selection to start the movie.
- 2 Press ENTER to confirm your selection.

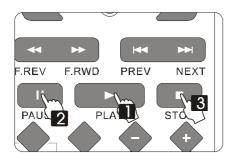
Accessing a menu after play has started

If you wish to re-enter the menu after disc play has started, use the MENU key. MENU also exits the menu at any time.



Basic Disc Playback

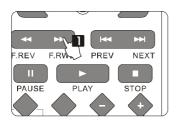
Starting, Pausing and Stopping Disc Play



- PLAY To begin playback of a disc, press PLAY.
- PAUSE To freeze the video on a single frame, press the PLAY/PAUSE (Front Panel) or PAUSE (Remote Control) key during playback. To resume normal playback, press PLAY/PAUSE (Front Panel) or PLAY (Remote Control).
- STOP To stop playback of a disc, press STOP. The first time STOP is pressed the location where disc play was halted is saved. You can begin playback where you left off by pressing PLAY. If STOP is pressed twice, the playback location is reset to the beginning of the disc.

Fast Forward and Fast Reverse

You can scan through DVD's, and other discs in forward or reverse direction at speeds up to 8X (eight times normal speed). Fast forward/reverse scanning will only work *during* disc playback, not when the disc is stopped.

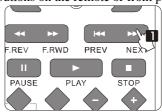


To use the fast forward/reverse function with the remote control, press the F.REV or F.RWD key repeatedly to cycle through all speeds in the desired direction.

Available speeds are 2X, 4X, 6X, and 8X. To resume normal playback, press the PLAY key.

Skipping to the Next or Previous Chapter /Track

You can advance or skip back through the chapters or tracks on DVD discs, Audio CDs and other discs with the NEXT and PREV buttons on the remote or front panel.

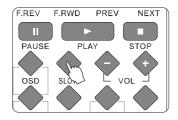


- SKIP NEXT To advance to the next chapter or track, press the NEXT button on the remote control or front panel.
- 2 SKIP PREVIOUS Press the PREV button on the remote control or front panel to skip back to the previous track.

Advanced Playback

Slow Motion Playback

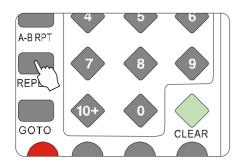
This unit supports slow motion playback to 1/8 normal speed.



Press the SLOW MOTION button repeatedly to step through all options for slow playback. With DVD's, you can choose from 2X,4X or 8X speed.

Repeating a Disc, Chapter, Title or Track

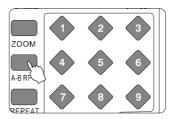
To repeat a segment of a disc, use the REPEAT key. On DVDs, you can repeat an entire disc, title or chapter chapter and disc repeat is supported, but PBC must be disabled first (Press the PBC key). Audio CDs also allow repeat of tracks or the entire disc.



- Press REPEAT during disc playback to DVD disc repeat, chapter, title, track and off the repeat.
- Press REPEAT during disc playback to SVCD disc repeat-one, repeat-all, and repeat off on the PBC OFF mode.
- Press A-B RPT, first set A, second B, 3th setting cancelled.

Repeating a Segment You Define

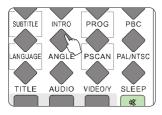
Unlike the REPEAT key, which allows you to repeat segments already defined on a disc, such as tracks and chapters, the A-B RPT key lets you define your own segments to repeat



- During playback, when you reach the start of the segment you want to repeat, press the REPEAT A-B button. The following icon is displayed on-screen, letting you know that the segment start point has been saved.
- When you reach the end of the segment you want to repeat, press the A-B RPT button again. The peat icon on-screen changes to the following, reporting that the endpoint of the video segment has been saved. The segment will now begin repeating.
- To cancel repeat and resume normal playback, Press A-B RPT again. The repeat icon disappears from the screen.

Multi-Angle Function

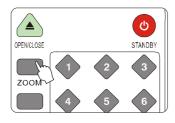
Some DVD discs are recorded with multiple viewing angles for certain scenes. When you are viewing a disc that supports this feature, you can choose among the available angles on the disc with the ANGLE key.



Most discs with multi-angle will display an Indicator or angle mark, that alerts the viewer that multiple angles are available for the current scene. When this mark appears on-screen, press the ANGLE button to select an angle to view.

Using the Zoom Function

Use the zoom function to zoom in or out during disc playback or when a frame is paused on-screen. ZOOM also works when viewing JPG images.



Press the ZOOM key repeatedly to cycle through all the zoom levels 1.5 X, 2X, 3X or OFF. The ZOOM REFERENCEWINDOW appears in the upper left corner of the screen, indicating the ZOOM level and providing a macro view of the "ZOOMED" portion of the screen in reference to normal viewing.



You can use the ARROW keys to move around the image. This will display the parts of the image that do not appear on-screen when the image is zoomed in. The reference window shows the position of the magnified portion in relation to the rest of the picture.

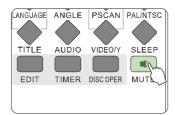


Press the ZOOM key repeatedly to return to normal viewing.

Muting the sound

1

Press the MUTE button on the remote to temporarily cancel the audio signal at any time. Press MUTE again to resume normal audio.

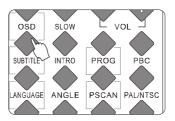


Changing the audio track

Most DVD discs are recorded with multiple audio tracks. These can contain multiple languages and different audio formats, such as 5.1Channel, 2 Channel. A director's commentary track - where the director can be heard discussing the movie - is also common on DVD's.

Subtitles

Most DVD discs include at least one subtitle track in one language. Subtitles are useful viewing movies in a foreign language or for hearing-impaired viewers.



During playback, press the SUBTITLE button to access the SUBTITLE MENU.

2 Use the UP/DOWN ARROW keys to select an available language.

Displaying Playback Information

When playing a DVD, or Music CD, you can display the current title, chapter/track and elapsed playback time on-screen with the OSD key.

During playback, press the AUDIO button to change the audio track.

1

During playback, press OSD to view available information.

2

To cancel the on-screen display, continue pressing OSD until the screen is clear.

Viewing JPG Files

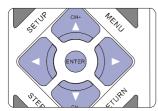
Slide Shows

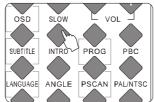
You can view JPG picture files stored on CD-R/RW discs individually or in slide show mode on your TV. JPG is the standard format for pictures stored in digital cameras, the Internet and many other applications.

When you insert a disc with JPG files, a Slide Show will automatically begin.

Viewing thumbnails of your JPG pictures

Thumbnails are smaller sized versions of your JPG files that allow you to preview many files on a single page.





During slide show playback, press the INTRO key at any time to see a thumbnail preview of your JPG files. A maximum of 9 images are shown on each screen.



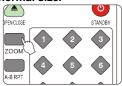


- 2 Use the PREV / NEXT keys to navigate to the next or previous screen of thumbnails.
- Use the LEFT/RIGHT ARROW KEYS to navigate the thumbnail screen, moving to the image you wish to display.
- 4 Press ENTER to display the file on screen.

Using the zoom function with JPG

You can zoom in or out on JPG images.

While the picture is displayed, press the ZOOM key to switch zoom on. The Zoom button is shown in the following left of the screen. The starting value is 100% normal size.





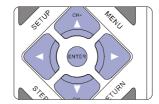
Press the F.REV OR F.REW key repeatedly to zoom in or out. You can zoom in up to100PCT, and out to 25PCT of the Original image size.



Rotating and Flipping JPG Images

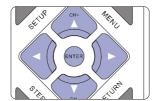
While a JPG is displayed, you can rotate the image or flip it horizontally or vertically.

To rotate an image in the clockwise direction, press the RIGHT ARROW key.





To flip the image horizontally, press the UP ARROW key.





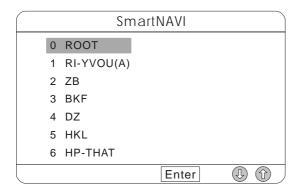
JPG notes

- JPG files must be stored on discs with the extension "JPG", such as "picture1.jpg", otherwise the files will not be recognized.
- 2. You can have a maximum of 250 files or folders.
- 3. CD-R/RW discs containing JPG files should be in ISO/9660, Mode 1, Closed Session format for best compatibility.

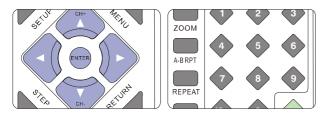
Playing MP3 Files

The MP3 Player

When you insert a disc containing MP3 files, the player will launch the MP3 player - an on-screen interface for playing MP3 music files.



- TRACK LIST A list of the tracks and folders on the disc.
- **2. CURRENT FILE -** The current file begin played.
- **3. PLAYBACK INFO -** Displays the current track number, total tracks on the disc and elapsed playback time.



Use the UP/DOWN ARROW keys to select a file to play. Alternatively, you can jump to a file directly by using the NUMBER keys to enter the file number, then pressing ENTER.

MP3 notes

- MP3 files must be stored on discs with the extension "MP3", such as "song1.mp3", otherwise the files will not be recognized.
- You can have a maximum of 250 files or folders.
- CD-R/RW discs containing MP3 files should be in ISO/9660, Mode 1, Closed Session format for best compatibility.

Introduction to Recording

You already know that DVD discs provide the highest quality video playback available. Now, with DVD+R/RW recording, you can create your own DVDs from your home movies, favorite TV shows or virtually any other video source.

Recording to DVD+R/RW is easy. The process is similar in many ways to your old VCR, but with many new enhancements. You can record live by simply pressing one button, or set the timer for scheduled recordings. And DVD+RW discs can be erased and used over and over again - more than one thousand times and still look crystal clear. Try that with VHS tapes!

There's lots of new editing features with DVD+R/RW that give your recordings a flexibility that you never had with VHS. The Title Screen gives you quick access to your recordings with thumbnail images you can change. You can quickly add or delete Titles or Chapters.

Discs you can Record To

This unit will accept two disc types for Recording: DVD+RW and DVD+R.



DVD+R

DVD+R

DVD+R discs are "Recordable" discs that cannot be erased. Once a recording is made to a DVD+R disc, the disc space used by that recording can not be reclaimed, although the recording itself can be "hidden" so it is not viewable when the disc is played.

DVD+R discs must be *Finalized* before they can be played back on standard DVD Recorders. Once this process is complete, no more recordings can be added. This is an important difference between DVD+R and DVD+RW Discs. While the TOC (Table of Contents) can be written to and updated many times on a DVD+RW disc, the TOC on a DVD+R disc can only be written once. Therefore, you cannot move a DVD+R between the Recorder and a DVD Recorder as you add recordings to the disc. Instead, you must complete the disc *before* it is playable on a standard DVD Recorder.

Although DVD+R offers less recording flexibility than DVD+RW, the lower cost per disc and the fact that the material cannot be erased or edited make it the best choice for large distributions of recordings to friends or clients.

Although DVD+RW discs are more expensive than DVD+Rs, they can actually be more economical and convenient for certain situations. For example, if you are recording TV programs you may want to "recycle" discs - recording over episodes you have already watched. In this situation, DVD+RW discs are the best choice because a single disc can be used over and over again - there's fewer discs to buy and keep track of.



DVD+RW

DVD+ReWritable

Think of DVD+RW (DVD+ReWritable) discs as the digital equivalent of your old VHS tapes. Like video tape, DVD+RW discs can be recorded to, erased and re-used. But unlike video tape, DVD+RW discs will retain their crystal-clear digital quality even after being erased and re-recorded over 1000 times! This superior quality will not degrade with the passage of time like VHS tapes.

Also, unlike DVD+R discs, DVD+RW discs do not require a "Finalization" process for compatibility with standard DVD Recorders. To understand why this is so, consider the following: In order for your recordings to be compatible with standard DVD Recorders, a TOC (Table of Contents) must be written to each disc. Since DVD+RW discs are ReWritable, the TOC can be constantly updated as new recordings are made. This means that a DVD+RW disc can be played on a standard DVD Recorder directly after the first recording, and will remain compatible as new material is added later.

What you can Record From

You can record your own DVDs from the following sources:

TV Tuner - This unit features a built-in TV Tuner that can be connected to a Cable TV hookup or standard Antenna to record your favorite TV shows. You can auto-scan for available channels and add or delete channels from the channel list.

AV Inputs (Composite/S-Video) - Use the Audio/Video Inputs to record from consumer electronics devices such as your Camcorder and VCR. You can also connect external TV Tuners, DVD Recorders, etc. to the A/V inputs - basically any video device that has a S-Video or Composite Video Output.

About Copy Protection

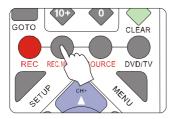
You cannot record from a video source that is encoded with Macrovision copy-protection, such as most DVDs produced by major studios. As an example, if you have a DVD Recorder connected to an AV input and attempt to record a DVD, an error message will occur, letting you know that the disc is copy-protected. DVDs not encoded with Macrovision can be used as a recording source.

Setting Recording Options

There are several recording options and other settings that should be understood and checked before you begin recording.

Setting the Record Quality

The Record quality determines the quality of your recordings as well as the maximum amount of video you can record on a disc. The higher the quality, the less video recording time can be recorded.



Press DVD/TV to enter to the live. And Press the REC MODE key repeatedly to select the record Quality for HQ, SP, LP, EP, EP+.

Quality	Level	Recording Time	MHPS	Resolution	Video/Audio Quality
HQ	High quality	60mins	9.716 mbps	D1 resolution,MPEG-2	Highest
SP.	Standard play	120mms	5.073 mbps	D1 resolution,MPEG-2	Excellent
L.P.	Long play	180mms	3.382 mbps	LP resolution,MPEG-2	Very Good
EP	Extended play	240mins	2.537 mbps	LP resolution, MPEG-2	Better than VHS
EP+	Super long play	360mins	1.691 mbps	SIF resolution,MPEG-1	Equal to VHS

NOTE: Recording time is Approximately value.

2 You can setting the record quality for SETUP MENU.

Setting the Auto Chapter Option

You can set the recorder to automatically add a "chapter marker" every 10 minutes during your recordings. During playback, this will allow you to skip forward or back in 10 minute intervals by using the NEXT/PREV keys on the remote. These chapter markers are compatible with most standard DVD Recorders as well.

You can also add chapter markers manually.

Press SETUP and navigate with the DOWN key to the RECORDING menu. Press ENTER. Then, navigate to The AUTO CHAPTER menu and press ENTER.





2

Select an Auto Chapter option with the UP/DOWN Keys and press ENTER to confirm. Press SETUP to exit and save changes.

Checking the Time and Date

Before you begin recording, you should make sure the Time and Date are both correct. The Time and Date are used not only to schedule recordings, but also to label recordings that you make live.

Press SETUP and navigate with the DOWN key to the SETUP MENU. Press ENTER, Then, press ENTER to RECORDING SETUP and enter to SET CIOCK



Use the UP/DOWN keys to increase or decrease the Time/Date value, and the LEFT/RIGHT keys to move to a different field. Press DONE to save your changes.



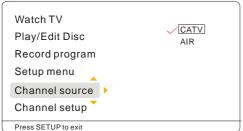
3 Press SETUP to exit the SETUP MENU.

TV Tuner Setup

Choose Cable(CATV) or Antenna(AIR)

It's important that this option is set correctly before scanning for available channels.

Press SETUP and navigate with the DOWN key to the CHANNEL SOUCRE menu. Then, navigate to the CATV or AIR option and press ENTER.

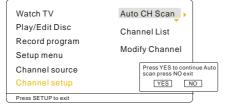


2 Select CATV or AIR and press ENTER to confirm.

Scanning for Available Channels

During the Initial Setup, the built-in TV Tuner scanned for available and added these to the channel list. However, if you have switched your input to Cable or Antenna, or moved to a different location, you may wish to perform the channel search again to refresh the store channel list.

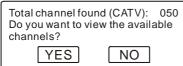
Press SETUP and navigate with the DOWN key to the SYSTEM SETUP menu. Press ENTER. Then, navigate to the CHANNEL SEARCH option and press ENTER.



Press YES to select CONFIRM. The TV Tuner now scans for available channels.



When the process is completed, press No to exit.



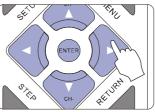
Adding, Fine Tuning and Deleting Channels

After scanning for channels, the TV Tuner holds a list of available channels that are accessible with the CH+ and CH-keys. You can manually edit this list by Adding, Fine Tuning or Deleting channels in the DVD Recorder's SETUP MENU.

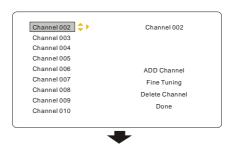
Press SETUP and navigate with the DOWN key to the CHANNEL SETUP menu. Press RIGHT ARROW. Then, Navigate to the MODIFY CHANNEL option and press ENTER.



Use the UP/DOWN keys to navigate to the channel you wish to Add, Fine Tune or Delete. To access the next page of channels, press the RIGHT arrow key and press ENTER.



Press UP/ DOWN ARROW to choose between ADD CHANNEL, FINE TUNING and DELETE CHANNEL. Press the DONE key to exit the menu.





The Title Screen

When you insert a DVD+RW or DVD+R disc, the Title Screen will appear. The Title Screen displays thumbnail images and information for each title (recording) on the disc.



- **1. THUMBNAIL IMAGE** An image taken from the first frame of the recording, the thumbnail image provides a visual cue to help you identify the titles on the disc.
- **2. TITLE INFORMATION -** Displays information about the recording, including the Date and Time that the recording was made, the total length of the recording and the Record Speed.
- **3. NEXT/PREVIOUS INDICATOR** The ARROW SYMBOL appears above or below the 3 titles, indicating that a previous or next page of titles exists.

Types of Recordings

There are two recording methods you can use:

LIVE RECORDING - You start a live recording by simply pressing the **REC** button while viewing video from an input source, such as the TV Tuner or AV Inputs. A live recording will end automatically if the disc is full.

TIMER RECORDING - You can also schedule a recording to automatically begin at a particular Date and Time using the DVD Recorder's built-in TIMER function. Recordings can be scheduled to re-occur once a week or daily. The DVD Recorder must be in STANDBY MODE in order for a scheduled Timer Recording to begin.

Automatically Adding Chapter Markers

You can set the recorder to automatically add a CHAPTER MARKER every 10 minutes during your recordings. During playback, this will allow you to skip forward or back in 10 minute intervals by using the NEXT/PREV keys on the remote. These chapter markers are compatible with most standard DVD Recorders as well.

You can also add chapter markers manually.

Making a Live Recording Selecting the Input Source

After a DVD+RW or DVD+R disc is inserted in the DVD Recorder, you must select the input source that will be recorded. You may choose from the following input sources:

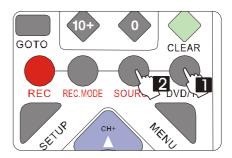
RF IN (TV TUNER) - The DVD Recorder's built-in TV Tuner allows you to record your favorite TV programs.

AV1 CVBS IN - The Composite Video Input located at the back of the unit. Used for any video device with Composite Video Out.

S-VIDEO IN 1 - Located on the back panel, S-VIDEO provides a better picture than standard Composite Video. Use this input for camcorders or other video devices when possible

AV2 CVBS IN - Composite Video Input is located on the side panel.

 $\mbox{\bf S-VIDEO}$ IN 2 - $\mbox{\bf S-Video}$ input is located on the side panel.

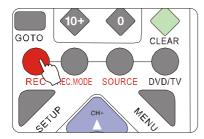


- To select the Input Source for recording, first press the DVD/TV button to switch to Recording Input Mode.
- 2 Next, press SOURCE key to selecting the input source.

3 You can Press REC key to start record.

Recording

In Live Recording mode, you may record with no specific end point, using the REC button.



To begin recording, press the REC button. This will begin recording without a specific end time. Alternatively, The stop time options will be dependent on the amount of disc space available, as well as the record mode (quality) setting. If you wish to A icon will appear on the screen letting you know that the recording has begun. The DVD Recorder's front display will show "REC", followed by the elapsed time of the recording.



- You may pause the DVD Recorder during a Live Recording. Simply press pause and the recording will stop temporarily. Press play again to resume recording.
- To end recording, press STOP. Keep in mind that the recording will end automatically if the disc runs out of space. There will be a STOP while the Recorder updates the disc contents.
- To return to the Title Screen, press TITLE. You will see a thumbnail image representing your last recording, with information on the details of the recording, including the Date and Time the recording was made, along with the Length and Recording Mode.



DVD+R Discs must be FINALIZED

Remember, your recording is not complete on a DVD+R disc until the disc is FINALIZED. Until a DVD+R disc is finalized, it can be recorded to, played back and edited on the DVD Recorder, but it will not be compatible with any other DVD Recorder. Finalization makes the disc compatible for playback

on standard DVD players. Once a disc is finalized, no more recordings can be added.

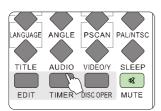
For more on Finalization, see EDIT DISC.

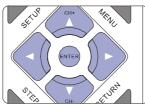
Title Limit

A DVD+R/RW disc may contain up to 48 titles. Attempting to add additional title after this limit has been reached will result in an error.

Timer Recordings

You can use the Timer function to schedule recordings to begin and end at specific times. Timer Recordings are designed for unattended operation, and will only work when the recorder is in Standby Mode. During a Timer Recording, the recorder may not be used for any other operations.





1

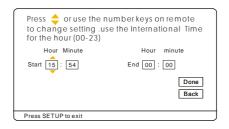
To begin programming a scheduled recording, press the TIMER button or press the SETUP button on the remote control to enter the Setup menu. Press UP/DOWN arrow to Record Program, then press the RIGHT arrow to Timer Record and press enter.

This will access the recorder's built-in Timer Setup Screen, where you can program up to 8 scheduled recordings.



1. RECORD TIME

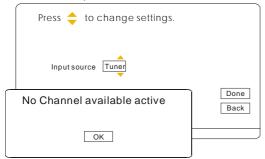
- START-The time that the recording will begin, in 24-hour time. In this format, 1:00PM is represented as 13:00, 2:00PM as 14:00, etc.
- END-The time that the recording will end of the recording.



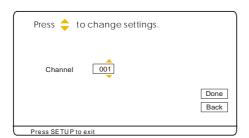
2. FREQUENCY - The frequency that the schedule will automatically repeat. The following options are available:



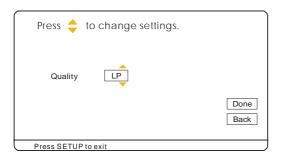
3. SOURCE - The Video Input Source that will be used for the recording: TV Tuner, AV1 CVBS IN, S-VIDEO 1, AV2 CVBS IN, S-VIDEO 2.



4. CHANNEL-the TV channel will be recording.



5. QUALITY- The Recording Speed (Quality Mode): HQ, SP, LP, EP, EP+. default setting: LP

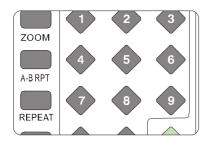


6.-TITLE-The title is generated based on the date you set.





To input numeric values such as START/STOP TIME and SOURCE TV CHANNEL, use the NUMBER



To save an entry, press ENTER. The recorder will return to the Timer Schedule Screen and the new entry will be shown in the list:

Title	Date	Start SOU	rce	
(001	2004/01/12	03:44	67	
002	2004/01/13	05:42	67	
003	2004/01/14	02:42	67	
Press SETUP to exit				

To exit the Timer Menu, press SETUP.

EDITING YOUR RECORDINGS

Editing Overview

Your DVD Recorder's capabilities go far beyond simply recording in Live and Timer modes. A vast array of editing options are also available, allowing you to tailor your recordings to your own personal requirements.

You can divide your recordings into sections, or Chapters, that provide the user-friendly navigation made popular on motion picture DVDs. Entire titles can be erased, although the space cannot be reclaimed with DVD+R discs.

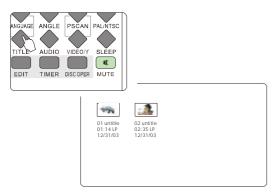
Lastly, to make your discs compatible for distribution to clients or friends, use the Make Compatible and Finalize options for DVD+RW and DVD+R discs, respectively. These functions assure that all your edits will be "locked in" and your discs will playback just as you wish - on most DVD Recorders

EDIT MENU Functions - Title

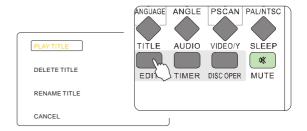
Use the EDIT MENU to access available editing functions. The EDIT MENU can be accessed in the Title Screen, or during playback of a DVD+R/RW disc. The available editing functions will change depending on the type of disc and where the menu is accessed.

Access the EDIT MENU from the Title Screen for top level editing functions. These functions deal with the compatibility and playback of an entire disc, rather than with individual titles, which are edited during playback.

First bring up the Title Screen by pressing TITLE when the Recorder is in DVD mode.

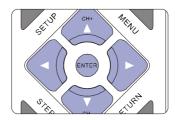


Press EDIT to access the EDIT MENU.



3

To perform any of the above functions in the EDIT MENU, use the UP/DOWN ARROW keys to select a function and press ENTER to confirm.



DELETE TITLE

Delete the selected Title. The functionality of this option is different with DVD+R & DVD+RW discs. With DVD+RW discs, the title is erased and the disc space freed for use for subsequent recordings. However, when a title is erased on a DVD+R disc, the disc space cannot be reclaimed – the title is essentially "hidden" and the disc space is still used up.

Play Title

You can play titles for your recordings.

RENAME TITLE

You can rename your recording titles by selecting RENAME TITLE.

NOTE: Letter capacity will not exceed 11 letters

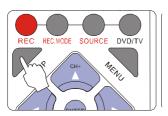
Chapter Limit

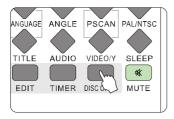
Each title can have a maximum of 99 chapters, with a maximum of 124 chapters allowed on a disc. Attempting to add additional chapters after this limit has been reached will result in an error.

EDIT DISC

Erasing a DVD+RW Disc

DVD+RW discs can be erased, deleting all content on the disc and freeing up all space for new recordings. You must enter the SETUP MENU or press the remote DISC OPER key to erase a DVD+RW disc.





1

Press SETUP to enter the SETUP MENU.



2 Use the DOWN key to navigate to the PLAY/EDIT DISC menu and press ENTER key.



Press ENTER to select ERASE, and ENTER again to Confirm.



FORMAT DISC

Available only with DVD+RW discs. Use **FORMAT** to completely clear all recordings from the disc. Choose **YES** to erase the disc's content, or **NO** to abort.

ERASE DISC

Available only with DVD+RW discs. Use ERASE to completely clear all recordings from the disc. Choose **YES** to erase the disc's content, or **NO** to abort.

FINALIZE DISC

This option is only used with DVD+R discs - which **must** be FINALIZED before being used in a standard DVD Player. Unlike DVD+RW discs, DVD+R discs cannot be moved back And forth between the recorder and standard Players. You must Finish all recordings on a DVD+R and finalize the disc before it Will be usable on any other Player.

Once a DVD+R disc is finalized, no further recordings can be Made on the disc, and no edits can be performed.

RANAME DISC

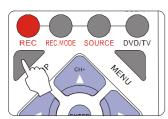
Enter in numbers or alphabets to rename disc name.

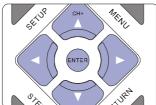
NOTE: active EDIT Disc menu bar you must insert DVD+R/RW discs in DVD Loader, then enter in the monitor mode

Using the SETUP MENU

The DVD Player's SETUP MENU is where various settings are configured, including watching TV, play/edit disc, record program, setup menu, channel source, channel setup settings and more.

To EXIT the SETUP MENU, press SETUP. Your changes will be saved.





Press SETUP to enter the SETUP MENU. Use the UP/DOWN ARROW keys to select a sub-menu and press ENTER.



2 Use the LEFT/RIGHT ARROW keys to select the option you wish to change and press ENTER.



3 Select the new value with the UP/DOWN ARROW keys and press ENTER to confirm.



Play/Edit

Play/Edit Title

Enter in Play/Edit title menu to play or edit title that your recording.



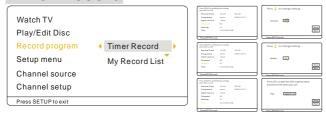
Disc Operations

Enter in **Edit Disc** menu to format disc, erase disc, finalize disc, rename disc.



Record Program

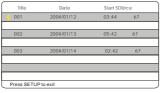
Timer Record



The **TIMER RECORD** screen allows you to setup 8 scheduled recordings. You can choose **record timer**, **Frequency** (when the recording takes place) and **Input source**, the **Channel** (Record TV) **Quality**, and **Title**. For more on setting up Timer Recordings, see the RECORDING chapter.

My Record List-enter in My Record List menu you can view your scheduled recordings list





Setup Menu

The Setup Menu includes g Recording Setup, DVD Control, General, Video, Speaker, and Audio settings.



Recording Setup

The **Recording Setup** menu includes Recording Quality, Auto Chapter, Set Clock settings.



RECORD QUALITY

Default setting: **SP**

Sets the QUALITY mode for recording. You can choose from a variety of modes, each offering different Video and Audio quality, The selections **HQ**, **LP**, **EP**, **EP+**. For more info the **RECORD QUALITY** setting, see the RECORDING chapter.



AUTO CHAPTER

Default setting: 10 MIN

You can set the unit to automatically add a CHAPTER MARKER approximately every 10 minutes during your recordings by changing this setting to **ON**. Chapter Markers make your recordings more usable by providing a way to skip to next or previous video segments. Alternatively, you may manually create your own Chapter Markers See EDITING YOUR RECORDINGS.



Set clock

You can Set the Date and Time used by the unit for Timer Recording purposes. Use the UP/DOWN ARROW keys to increase or decrease the Date/Time values and LEFT/RIGHT ARROW keys to move to a different field. Press **DONE** to confirm and save.

DVD Control

The DVD control menu including Angle Make, Language Preference. Parental Control settings.

ANGLE Make- Define DVD multi-angle display function ON/OFF. Default setting: **ON**





Language Preference-define DVD menu language, default setting: English. You can select English, French, Spanish, Chinese, and Japanese.





PARENTAL CONTROL

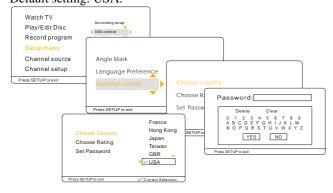
You must set up a PASSWORD to use the Parental Level options. When you first attempt to use the Parental Control, you are prompted to create a NEW PASSWORD. Choose any 5-Digit number for your password and press ENTER. Enter the password again to confirm.

After your password is set up, use the PASSWORD menu option to change your existing password. You will be prompted to enter the OLD password, then the NEW password twice to confirm. If you have forgotten your password, you may use the MASTER PASSWORD of **3308** in place of the old password.

Note on Parental Security

Remember to keep in mind that since the MASTER PASSWORD is listed above, your Recorder may not be secure if this manual is accessible by your children.

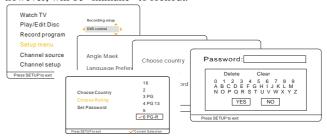
CHOOSE COUNTY-you can choose the country or zone for China, France, Hong Kong, Japan, Taiwan, GBR, USA. Default setting: USA.



CHOOSE RATING

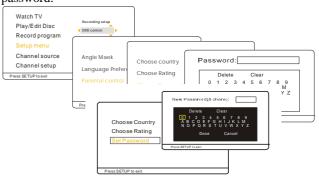
Default setting: NO LIMIT

The Parental Level allows you to limit the use of your DVD Recorder to only those DVD discs that do not exceed the rating you specify. Choices include **G, PG, PG-13, R, NC-17 and NO LIMIT** (All discs play). When the parental level is set, DVD discs that support Parental Control will play only after the correct password has been entered. Non-supporting discs, however, will be "immune" to lockout.



SET PASSWORD

To change the password, enter "3308", then enter the new password.



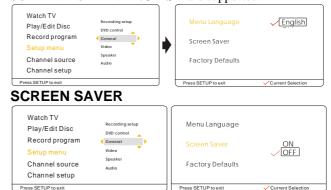
General

The **General** menu including Menu Language, Screen Saver, Factory.

Menu language

Default setting: **ENGLISH**

Set the language used by the SETUP MENU and ON SCREEN DISPLAY. **ENGLISH** are supported.



Default setting: **OFF**

You can enable the built-in SCREEN SAVER. When enabled by choosing **ON**, the Screen Saver will start if the unit remains paused for a period of about 5 minutes, protecting your TV from possible "screen burn" that could occur when a still image is displayed for too long

FACTORY RESET

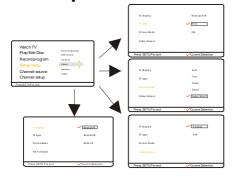
Default setting: YES

Use this option to RESET the unit to FACTORY DEFAULTS. All settings will be reset, including the DATE and TIME. All stored CHANNELS will be lost. Choose **NO** to maintain your settings.





Video Setup



TV DISPLAY

Default setting: NORMAL/PS(4:3)

You can setup your DVD Recorder to work with normal and wide screen televisions. If you are using a wide screen TV, set this option to 16:9 WIDE TV to match the aspect ratio of your TV. When used with a normal TV (4:3 aspect ratio), the 4:3 NORMAL/PS setting results in the typical "Pan & Scan" display, where a movie is clipped on the sides to fit into the TV screen. The 4:3 NORMAL/LB LETTERBOX setting will enable the "Letterbox" format, where the movie is presented in wide screen format with black lines at the top and bottom of the screen. The 4:3 NORMAL/PS and NORMAL/LB settings usually will have no effect, since very few movies support both options. DVDs are generally recorded with either PS or LB and do not allow switching between the two. So, viewing a wide screen DVD on a standard TV will result in black bars on the top and bottom of the screen.

TV TYPE

Default setting: **NTSC**

Your DVD Recorder will work with TVs based on the NTSC and PAL standards, as well as TVs designed to function with both standards, or "Multi System" models. NTSC is the standard TV system used in the USA, Canada, Japan and many other countries. The PAL TV system is used in Europe, Africa and the Middle East, among other places. Refer to your TV's documentation to make sure which model you have.

PICTURE MODE

Default setting: **AUTO**

Here you can setup the picture mode with AUTO, Film Video Smart. Super Smart.

VIDEO OUTPUT

Default setting: S-VIDEO (COMPOSITE)

S-VIDEO: A higher quality picture than standard COMPOSITE VIDEO S-VIDEO requires a special cable (not included). Composite Video is supported on majority of televisions. It is identified by a yellow-colored photo-type jack.

YUV: This setting is used for TVs supporting component video out and progressive scan. To activate the component video outputs, you must first connect the unit using the COMPOSITE VIDEO connector and cable in order to enter SETUP and change this setting. Next, connect the unit using the COMPONENT VIDEO cables and unplug the COMPOSITE video cable. Adjust the TV's Video Input setting to correspond to the COMPONENT Input. Most TVs scan only half the lines of an image in one pass. This scanning method is known as "interlaced" mode, as the odd and even lines are interlaced together in alternate scans, and is the default setting with the NTSC and PAL options. Progressive scan, set with the PROGRESSIVE option, is a scanning method offered on high-end TVs. Progressive Scan TV's scan all the lines of an image in one pass, creating a more film-like quality to DVD movies. Note: All progressive scan TV's requires component video inputs.

Resetting the video output

If you inadvertently switch the OUTPUT FORMAT setting to PROGRESSIVE while using a standard TV not capable of PSCAN, you will loose video. If this happens, press PSCAN to reset the recorder to its default video settings.

Speaker Setup

The speaker setup menu includes Down Mix. Center, Rear, subwoofer, Center Delay, Rear Delay, speaker test setting. Down Mix set-including Lt/Rt, Stereo, OFF setting. Default setting: Lt/Rt.





SET the **Down Mix** menu to OFF, rear, subwoofer, center delay, rear delay menu.

CENTER- You may set the center speaker ON or OFF. default setting: ON.





REAR- You may set the REAR speaker ON or OFF. Default setting: ON.





SUBWOOFER- you may set the subwoofer speaker ON or OFF.

Default setting: ON.

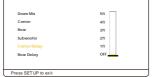




Center Delay- you may set the center speaker delay output time.

Default setting: OFF.

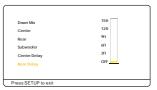




Rear Delay- you may set the rear speaker delay output times.

Default setting: OFF.





Speaker Test- set ON, you can test speaker output. Default setting: OFF.





AUDIO SETUP

The menu including Digital Output, Dynamic Compress, Pro Logic setting.





DIGITAL OUTPUT

Default setting: ANALOG

This setting controls the audio output to the L/R stereo output connectors. Generally, this setting would not be changed, unless you plan to use the unit with a **MONO** audio device, in which both stereo channels would be output through each jack.

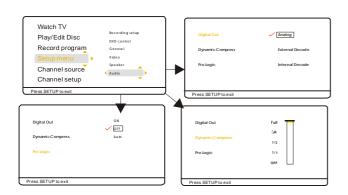
EXTENAL DECODE

EXTENAL DECODE

The digital audio format used by most consumer electronic equipment as well as the Coaxial and Optical Digital Audio Output connectors on this unit. If you are using only the Stereo Audio Outputs, this setting is not applicable. The setting is used with receivers capable of Dolby Digital 5.1 or 5.1 channel decoding.

INTENAL DECODE

The setting is used with receivers incapable of Dolby Digital 5.1 decoding.



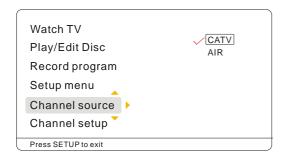
Dynamic compress-you can adjust audio dynamic range.

Pro logic-you may set Pro Logic to ON, OFF, or AUTO mode.

Channel Source

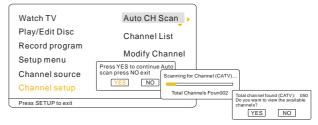
Default setting: CATV.

Before scanning TV channels, you must select the Channel source,

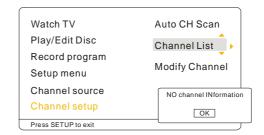


Channel Setup

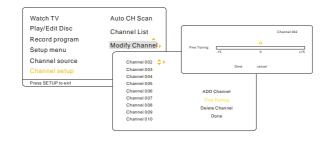
AUTO CH SCAN-enter the menu you can scan TV channels.



CHANNEL LIST- You can view the TV channel list after scanning.



MODIFY CHANNEL- Enter the menu to add, delete or find TV channels. Enter DONE to confirm.



TROUBLE SHOOTING

Common Problems & Solutions

Playback

The DVD Recorder Does Not Power On

- The AC power cord may be loose or not plugged in.
 Make sure the power cord is secure in the AC socket and the connector on the back of the Recorder.
- The unit may be in Standby Mode. Turn the Recorder on with the remote POWER button, wait for a few seconds, then turn the unit back on.
- There must be a pause between powering the unit down and back on of a few seconds.

A Specific Disc Does Not Play

- The disc may be dirty. Try cleaning the disc.
- Make sure the disc is not in upside-down
- The REGION CODE of the disc may not match that of the Recorder. In this case, the disc cannot be used.

The Remote Control Does Not Function

- Make sure you're aiming the remote directly at the Recorder remote sensor, located in the front display.
- Make sure there are no obstacles between the remote and the Recorder.
- The batteries may be drained. Try changing the batteries in the remote.
- You could be using the remote too far away. Try within 4 meters of the Recorder.

There is No Picture on the TV Screen

- Make sure the connections from the Recorder to the TV are secure.
- Verify that the TV's channel is set to match the video input you are using. Refer to the TV's documentation.
- On most TVs the "AUX In", "Video In" or "A/V In" channel should match the video input connector.
- If you're using the S-Video connector, you TV may have a separate input channel for this type.

The Picture Appears Stretched or Squeezed

- The Video Aspect Ratio may be set wrong for your television type.
- Enter the SETUP MENU and select the VIDEO setup MENU. Try changing the TV Display setting to normal/PS (4:3 Pan & Scan) if you are using a standard TV, or Wide TV(16:9 Wide) if your TV is a Wide-Screen type.

The Disc Doesn't Eject

 If the Recorder is in Standby Mode with the glowing LED to the left of the disc tray, the disc will not eject.
 Turn the Recorder on with the Remote Control and then eject the disc.

Distorted Picture when Connected to a VCR

• This DVD Recorder is built with Macrovision copyprotection. This will distort the signal when used with VCRs. Connect the Recorder directly to the TV.

Recording

Recording Will Not Start

- The Video Input Source may be protected with Macro Vision Copy Protection.
- The disc may already contain recordings of a different TV System type - PAL or NTSC. If the disc already contains a PAL recording, you cannot record from an NTSC source, and vice versa.
- The maximum number of titles 48 may have been reached.
- If the disc is a DVD+R, it may already be FINALIZED

The Disc Cannot be Erased

- The disc is not a DVD+RW disc.
- The disc may be dirty. Try cleaning the disc.

Recordings Do Not Play on Other DVD Recorder

- If the disc is a DVD+R, make sure it has been FINALIZED.
- The DVD Recorder may not support DVD+R/RW discs.

Timer Recording Does Not Start.

- The Time/Date is invalid or conflicts with another schedule.
- The Time/Date settings of the Recorder are incorrect.
 Set the Time/Date in SETUP.
- The specified Video Input Source is unavailable.
- The disc is out of space.

SPECIFICATIONS

DISC TYPES SUPPORTED	VIDEO PERFORMANCE
 DVD+RW Playback, Recording DVD+R Playback, Recording DVD-RW Playback DVD-R Playback DVD-Video SVCD Playback CD-Audio Playback Playback Playback 	Resolution 720x480 NTSC, 720x576 PAL in HQ Mode DA Converter
• CD-R/RW	AUDIO PERFORMANCE
 CD+G	 DA Converter
• Capacity	Harmonic Distortion < 0.001% (W.PEAK)
Recording Time Approximately 6 Hours (EP+ Mode) TV Systems	OUTPUT CONNECTIONS Component Video Out Y
MP3 & JPG Navigator	INPUT CONNECTIONS
 Fast Forward / Reverse to 8X Slow Motion Playback Repeat Playback (Chapter/Title/Disc & A-B) Commercial Skip Function 	 S-Video In (Front/Rear) Mini DIN 4-Pin (75 Ohm) Composite Video In (Front/Rear) . Cinch, 1Vp-p (75 Ohm) Stereo Audio In (Front/Rear) 1.8VRMS (47 Ohm)
 Zoom to 3X with Panning 	PHYSICAL
	 Operating Conditions

Attachment

Support Media(DVD+R)

Recommend	Maker	Media speed	Manufacture ID	Media type ID	Product Rev .NO	Notes
Max Write Speed :4×	Maxell	4 x	MAXELL	001	0	Ready Now
	TDK	4 ×	TDK	001	0	Ready Now
	Ricoh	4 ×	RICOHJPN	R00	0	Sample only
	Ricoh	4 ×	RICOHJPN	R01	2	
	YUDEN	2.4×	YUDEN000	T01	2	
	YUDEN	4 ×	YUDEN000	T00	0	
	SONY	4 ×	SONY	D01	0	Ready Now
	MISUBISHI	4 ×	MCC	002	0	
Max Write	BeAll	2.4×	BEALL PO	001	0	
Speed :2.4×	CMC	2.4×	CMC Mag	R01	0	
	DAXON(ACER)	2.4×	DAXON	AZ0	0	
	MITSUBISHI	2.4×	MCC	001	0	
	Total(Recommend)	12				

No Recommend	maker	Media speed				Notes
	HP	2.4×	RIRICOHJPN	R00	1	Ricoh ID
Max Write	Ritek	2.4×	RITEK	R01	1	
	Ricoh	2.4×	RICOHJPN	R00	0	
Speed :2.4×	ProDISC	2.4×	PRODISC	R01	0,1	2types
	Total (Not Recommend)	4				

Support Media(DVD+R)

Recommend	maker	Media speed	Manufacture ID	Media type ID	Total	Notes
Max Write Speed :2.4×	TDK	2.4×	TDK	t01	1	
Speed .2.4×	Total (Recommend)	3				
	RICOH	2.4×	RICOHJPN	W01	1	
	MITSUBISHI	2.4×	MCC	A01	1	
No Recommend	maker	Media speed	Manufacture ID	Media type ID	Total	Notes
Max Write	CMC	2.4×	CMC "null"MAG	W01	1	
Speed :2.4×	CMC	2.4×	CMC"space"MAG	W01	1	
	MCC	4×	MKM		1	Sample only
	Ricoh	4×	RICOHJPN	W11	1	Sample only
	OPTODISC	2.4×	OPTODISC	OP1	1	
	RiTEK	2.4×	RITEK	001	1	
	PRODISC	2.4×	PRODISC	W01	1	
	Total (Not Recommend)	7				

WARRANTY

Standard Limited Warranty

THIS MANUAL CONTAINS THE STANDARD WARRANTY FOR OUR PRODUCTS.
THE SPECIFIC RIGHTS AND OBLIGATIONS OF PURCHASERS OF PARTICULAR ASPIRE DIGITAL PRODUCTS SHALL BE GOVERNED BY THE WARRANTY CARD.

Warranty: ASPIRE DIGITAL warrants the enclosed AD-8091 unit to be free from defects in material and workmanship for the period set forth on the warranty card supplied with the product.

Repair Procedures, Exclusive Remedy: ASPIRE DIGITAL will, at its option, repair or replace products not conforming to this limited warranty at no charge. THIS IS THE SOLE AND EXCLUSIVE REMEDY AVAILABLE FOR BREACH OF WARRANTY OR UNDER ANY OTHER LEGAL THEORY WITH RESPECT TO ASPIRE DIGITAL PRODUCTS. If you find a product to be defective, contact your authorized ASPIRE DIGITAL representative or ASPIRE DIGITAL. When you receive authorization, return the product as directed, including proof of purchase and purchase date, at your expense and risk. Product repairs not covered by warranty, and product updates, will be provided at a set rate.

Limitations: This warranty is void if the product is damaged by improper or abnormal use or by accident, if the product is altered or modified in any way, or if any attempt is made to repair the product without authorization from ASPIRE DIGITAL. It is solely the purchaser's responsibility to determine the suitability of these products for each particular application.

No Other Warranties: EXCEPT AS PROVIDED IN THE LIMITED WARRANTY SET FORTH IN THE WARRANTY CARD SUPPLIED WITH THE PRODUCT, ASPIRE DIGITAL PRODUCT MANUALS ARE PROVIDED AS IS. ALL OTHER WARRANTIES AND REPRESENTATIONS, ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED AND DO NOT APPLY. Except as required by law, no representative, agent, or employee of ASPIRE DIGITAL is authorized to make warranties, representations, or obligations inconsistent with or in addition to those set forth in this limited warranty.

No Damages: IN NO EVENT WILL ASPIRE DIGITAL BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR UNDER ANY OTHER LEGAL THEORY, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. In no event will ASPIRE DIGITAL be liable for sums in excess of the purchase price of the product. ASPIRE DIGITAL is thus not liable for lost profits or good will; downtime; damage or destruction of any program, data, equipment, or other property; costs of recovering, reprogramming, or reproducing any program, data, or equipment; personal injury or loss; or any other damages.

Notice: (1) Any changes or modifications not expressly approved by Aspire Digital, LLC could void the user's authority to operate the equipment.

Contacting Technical Support

If you need help setting up your AD-8091 or if any parts are missing from the box, do not return the unit to the place of purchase. Instead, contact Aspire Digital at:

1606 West Lockness Place Torrance, Ca 90501 310-856-0634 fax

Support@aspiredigital.com www.aspiredigital.com

REGISTRATION CARD

You must be registered to:

- Call our technical support hotline.
- Be informed of future software updates.
- Receive information on new products and special offers.

Aspire Digital warrants this product to be free from defects of material and workmanship for one (1) year, from the date of purchase. During the warranty period, Aspire Digital will repair or replace, at its option, the product at no charge to the customer. The replacement unit may be a remanufactured unit or a unit of equal or greater functionality. After one (1) year, customer shall pay for all parts, labor and service. If a unit is replaced during the warranty period, the original warranty will remain in effect until the end of the one (1) year period or 30 days, whichever is longer.

This warranty shall not apply if customer: (1) Abuses or modifies the product; (2) Operates the product in an environment with excessive dirt, moisture, chemical fumes, extremes of temperature or other improper conditions; (3) Operates the product with other hardware not specified for the product.

Please fill out the following information, or tape your business card here:

rirst Name:	Last Name:
Email:	Date of Purchase:
Address:	City:
State:	Zip:
Phone:	Fax:
Model:	Serial Number:

Mail this form to: Aspire Digital, LLC.

1606 West Lockness Place Torrance, Ca 90501

Or fax the form to: 310-856-0634

Or email the above information to support@aspiredigital.com